August 25, 2004 - System Issues and Status

Table 1: Process Strategy/Geier as of 08/25/04
Active Requests in order of priority (1 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 65-04	Terra	ValR5	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	11/30/01 hr 12 to 1/1/02 hr 11 and 5/31/02 hr 12 to 7/1/02 hr 11	Done 8/16/04.
PR 64-04	Terra	ValR5	SFC (SS9)	9.2P1 9.3P1 9.4P1	11/30/01 hr 12 to 1/1/02 hr 11 and 5/31/02 hr 12 to 7/1/02 hr 11	
PR 67-04	Terra	ValR5	CRS (SS5)	5.0P1 5.1P1 5.4P1	11/30/01 hr 12 to 1/1/02 hr 11 and 5/31/02 hr 12 to 7/1/02 hr 11	Process crosstrack Instrument only.
PR 66-04	Terra	ValR5	FSW (SS6)	6.1P1 6.2P1 6.3P1	11/30/01 hr 12 to 1/1/02 hr 11 and 5/31/02 hr 12 to 7/1/02 hr 11	
PRs 81-04, 82-04	Terra	ValR3, ValR4	BDS (SS1)	1.1P3 1.3P3	5/28/04, 8/2/04, 12/15/03	**HOLDING - waiting for delivery to promote.**
PR 77-04 to 80-04	Terra	ValR4	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.4P1 2.2P1 2.3P1 2.3P2	1/31/04 to 3/1/04 and 4/10/04 to 4/15/04	**HOLDING - waiting for Gains and SRF to deliver/promote.**
PR 75-04 to 76-04	Terra	ValR4	BDS/ ERBElike (SS1-3)	3.1P1 3.2P1	2/04	**HOLDING - waiting for Gains and SRF to deliver/promote and ValR4 ES8 to run.**

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 70-04	Aqua	ValR2	SSF (SS4) Clouds	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	7/2/02 to 7/28/02 and 12/1/02 to 1/1/03 hr 11	
PR 69-04	Aqua	ValR2	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/2/02 to 7/28/02 and 12/1/02 to 1/1/03 hr 11	
PR 58-04	Aqua	ValR2	SFC (SS9)	9.2P1 9.3P1 9.4P1	7/2/02 to 7/28/02 and 12/1/02 to 1/1/03 hr 11	
PR 74-04	Terra	Edition2B	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	3/00 - 2/03	In production.
PR 73-04	Terra	Edition2B	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/00 - 2/03	**HOLDING - waiting on ValR2 approval from TISA.**
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	1 year (exact months not known)	**HOLDING - waiting on ValR5 approval**. Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	1 year (exact months not known)	**HOLDING - waiting on ValR5 approval.**
PR 61-04	Aqua	Edition1A	SSF (SS4) Clouds	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1	7/02 - 6/03	**HOLDING - waiting ValR2 approval from Clouds.**
PR 60-04	Aqua	Edition1A	SSF (SS4) Inversion	4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/02 - 6/03	**HOLDING - waiting on Edition1 Cloud processing.**
PR 59-04	Aqua	Edition1A	SFC (SS9)	9.2P1 9.3P1 9.4P1	7/02 - 6/03	**HOLDING - waiting on ValR2 approval from TISA.**

Table 1: Process Strategy/Geier as of 08/25/04
Active Requests in order of priority (3 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
Standing requests AM-PR 1-00 to 7-00	Terra	Edition1	BDS/ ERBElike (SS1-3)	1.1P3 1.2P1 1.3P1 1.3P2 2.1P1 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 7/04 - present	**DO NOT PRO-CESS 7/04 forward until ValR3 and ValR4 (PRs 81-04 & 82-04) approved.** DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests PM-PR 7-03A to 10-03	Aqua	Edition1	BDS/ ERBElike (SS1-3)	1.1P5 1.2P1 1.3P1 1.3P2 2.2P1 2.3P1 2.3P2 3.1P1 ~~3.2P2~~	For 8/04 - present	DO NOT PROCESS 3.2P2 - it is on hold.
Standing requests AM-PR 8A-02 to 11-02	Terra	Edition2	BDS/ ERBElike (SS1-3)	1.2P1 1.3P3 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 1/04 - present	**HOLDING - waiting for Aqua Gains and SRF to be delivered and associated ValRx to run.** DO NOT PROCESS 3.2P2 - it is on hold
Standing requests PM-PR 11-03, 13-03 to 17-03	Aqua	Edition2	BDS/ ERBElike (SS1-3)	1.3P3 1.2P1 2.2P1 2.3P1 2.3P2 2.4P1 3.1P1 ~~3.2P2~~	For 3/04 - present	**HOLDING - waiting for Aqua Gains and SRF to be delivered and associated ValRx to run.** DO NOT PROCESS 3.2P2 - it is on hold.
Standing request PM-PR 12-03	Aqua/ Terra	Edition2	ES4/ES9 (SS3)	3.2P1	For 1/04 - present	**HOLDING - waiting for both Terra and Aqua to have pro-cessed Edition2 data beyond 1/04.**

Table 1: Process Strategy/Geier as of 08/25/04
Active Requests in order of priority (4 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
PR 84-04	Terra	Beta2	Synoptic SARB (SS7.2)	7.2.1P1	1/01, 4/01, 7/01, 10/01, 3/00	**HOLDING - waiting on code to promote.**
PR 86-04	Terra	Beta2	TISA avg (SS8)	8.1P1	1/01, 4/01, 7/01, 10/01, 3/00	**HOLDING - waiting on code to deliver/ promote.**
PR 83-04	TRMM	Beta3	Synoptic SARB (SS7.2)	7.2.1P1	1/98 - 8/98, 3/00	**HOLDING - waiting on code to promote.**
PR 85-04	TRMM	Beta3	TISA avg (SS8)	8.1P1	1/98 - 8/98, 3/00	**HOLDING - waiting on code to delivery/ promote.**
PRs 60-04, 61-04	Aqua	Edition1A	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	7/03 - 12/03	**HOLDING - waiting on verification of ValR2.**
M-PR 3-02		NSIDC-NESDIS	EICE ESNOW (SS4.1)	4.1-4.0P1	Standing request	When FLASHflux starts operational processing need to keep snow/ice maps current.
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/00 - 2/03 remaining years	**HOLDING - waiting on code promotion and SSF availability.** Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/00 - 2/03 remaining years	**HOLDING - waiting on CRS availability.**
PR 74-04	Terra	Edition2B	SSF (SS4) Inversion	4.5-6.3P2 4.5-6.2P2 4.5-6.4P1	3/03 - 12/03	**HOLDING - waiting on ValR5 to be approved.**
PR 73-04	Terra	Edition2B	SFC (SS9)	9.2P1 9.3P1 9.4P1	3/03 - 12/03	**HOLDING - waiting on ValR2 approval from TISA.**

Table 1: Process Strategy/Geier as of 08/25/04
Active Requests in order of priority (5 of 5)

Production Request (PR)	Satellite	Production Strategy	Data Product (SS#)	PGEs	Data Dates	Special Status
M PR 2-04		GEOS4	MOA (SS12)	12.1P1	7/04 - present	
M PR 1-04		GEOS4	PMOA (SS9.1)	9.1P1	7/04 - present	
PR 63-04	Aqua	Beta1	CRS (SS5)	5.0P1 5.1P1 5.4P1	7/02 - 6/03	**HOLDING - waiting on code promotion and SSF availability.**
PR 62-04	Aqua	Beta1	FSW (SS6)	6.1P1 6.2P1 6.3P1	7/02 - 6/03	**HOLDING - waiting on CRS availability.**
PRs 60-04, 61-04	Aqua	Edition1A	SSF (SS4)	4.1-4.1P3 4.1-4.2P1 4.1-4.2P2 4.1-4.3P1 4.5-6.1P3 4.5-6.2P2 4.5-6.4P1	1/04 - 6/04	**HOLDING - waiting on Cloud resolution and on IES availability.**
PR 72-04	Terra	Edition2B	CRS (SS5)	5.0P1 5.1P1 5.4P1	3/03 - 12/03	**HOLDING - waiting on code to promote and SSF availability** Process crosstrack Instrument only.
PR 71-04	Terra	Edition2B	FSW (SS6)	6.1P1 6.2P1 6.3P1	3/03 - 12/03	**HOLDING - waiting on CRS availability.**

Table 2: Process Strategy/Geier as of 08/25/04
Coming Soon (1 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
9/04	Terra	ValR5	SRBAVG (SS10)	?? months	Delivery may or may not include GGEO inputs.
10/04	Terra	Edition2B	SRBAVG (SS10)	3/00 to 2/03	Delivery may or may not include GGEO inputs.
11/04		ValR11	GGEO (SS11)	3/03 to 6/03	Requires redelivery to handle GOES-9 and GOES-12; requires coefficients.
		Edition2A	GGEO (SS11)	3/03 to 6/03	ValR11 must be approved.
	Aqua	ValR1	SRBAVG (SS10)	?? months	9/10/04 delivery date; may require GGEO for 3/03 - 6/03.
	Aqua	Edition1A	SRBAVG (SS10)	7/02 - 6/03	9/10/04 delivery date; requires GGEO for 3/03 - 6/03.
12/04		ValR11	GGEO (SS11)	? months	7/03 - 6/04; requires coefficients.
		Edition2A	GGEO (SS11)	7/03 - 6/04	
	Aqua	Edition1A	SRBAVG (SS10)	7/03 - 6/04	
unkn	TRMM	Beta4	TSI (SS7.1)	9 months	Not on Bruce's schedule.
	Terra	Beta3	TSI (SS7.1)	12 months	Not on Bruce's schedule.
	TRMM	Beta4	Synoptic SARB (SS7.2)	9 months	Not on Bruce's schedule.
	Terra	Beta3	Synoptic SARB (SS7.2)	12 months	Not on Bruce's schedule.
	TRMM	Beta4	SYN/AVG/ ZAVG (SS8)	9 months	Not on Bruce's schedule.
	Terra	Beta3	SYN/AVG/ ZAVG (SS8)	12 months	Not on Bruce's schedule.
	Aqua	Beta1	TSI (SS7.1)		Not on Bruce's schedule.
	Aqua	Beta1	Synoptic SARB (SS7.2)		Not on Bruce's schedule.

Table 2: Process Strategy/Geier as of 08/25/04
Coming Soon (2 of 2)

Active Month	Satellite	Processing Strategy	Data Product (SS#)	Data Dates	Comments
	Aqua	Beta1	SYN/AVG/ ZAVG (SS8)		Not on Bruce's schedule.

Table 3: August 25, 2004 - System Issues and Status

Activity	Lead	Status
CM	Ayers	• See Table 4 for the current CERES Subsystem Delivery Schedule. (Ayers) • See Table 5 for SCCR activity since the last DMT meeting. SCCRs that need to be reviewed follow Table 5. (Ayers) • Tested the following subsystem deliveries and released them to the ASDC: Inversion (SCCR 551), Clouds (SCCR 549), and TISA Averaging (SCCR 554). (Ayers, Saunders) • Delivered updated TISA Gridding and Instantaneous SARB scripts to the ASDC. (Ayers, Saunders) • Testing the Instrument delivery (SCCR 552). (Ayers) • Updated the CERES Subsystem Delivery Schedule and posted it on the CERES CM Web site. (Ayers, Saunders)

Table 4: CERES Subsystem Delivery Schedule

Subsystem	Preliminary Delivery Memo to CM	Delivery to CERES CM	Delivery to Langley DAAC	Reason for Delivery	CERESlib Delivery Needed	New PGE(s)
Synoptic SARB (SCCR 550)	August 6	August 20	August 27	Support TRMM Beta3 and Terra Beta2 SYNI processing. Full delivery since the TRMM processing problem will also be corrected.	X	
Instrument (SCCR 552)	August 16	August 20	August 27	To fix the fatal error caused by bit-flips within the Instrument Level-0 data and to correct geolocation problems in Terra and Aqua. Support Terra Edition1 and Edition2 processing.		
TISA Averaging (Subsystem 10)	August 27	September 10	September 17	Support Terra Edition2A and Aqua Edition1A (maybe) SRBAVG processing.		
Instrument	N/A	September 17	September 17	Terra gains files.		
ERBE-like	N/A	September 17	September 17	Terra spectral response function files.		
GGEO (SCCR 553)		October		Delivery to handle GOES-9 and GOES-12.		X
Instrument		Late October		Aqua gains files.		
ERBE-like		Late October		Aqua spectral response function files.		
Clouds		November		Turn on CloudVis parameters and file for Bing Lin. Support Aqua Edition1A processing.		
Inversion		November		To run alternate main on a daily basis.		
Clouds		Spring 2005		Support TRMM VIRS-only processing from August 2001 through August 2002.		

Table 5: SCCR Activity August 10 at 12:15 p.m. - August 23 at 2:30 p.m.

SCCR	S	U	A	C	D	SS	Page No.	Comments
549			X			4.1 - 4.4		
550			X			7.2		
551					X	4.5 & 4.6		
552	X	X	X			1	11	
553	X					11	13	
554	X		X			8	14	
555	X					4.5 & 4.6	14	

S=Submitted; **U**=Updated; **A**=Approved; **C**=Closed; **D**=Disapproved; **SS**=Subsystem

CERES Software Configuration Change Request Submittal

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Subsystem: Instrument   SCCR Date: 08/16/2004   SCCR Number: 552

Description of Change (Science):
NONE

Reason for Change (Science):
N/A

Description of Change (non-Science):
1) Fix fatal error during production processing, due to bit-flip in the instrument elevation counts.
2) Fix error in the Julian to UTC time conversion routine (not currently used in production)
3) Include Gain Coefficient File in the input data for Metadata and QC reports.
4) Fix latitude range in CERES Metadata for Aqua and Terra, currently using TRMM values.
5) Update QC report to include Elevation Scan Rate Flag.
6) Update QC report to include Intercomparison Flag.
7) Update QC report to include Solar Eclipse Flag.
8) Add PCFin comparison script to check PCFin files for CERES CM testing.
9) Update Metadata routines to check if an input or output file has already been added to the input or output file lists.
10) Update run script error e-mail to reflect new directory for CODINE output files.

Reason for Change (non-Science):
1) Elevation count bit-flips that show up in the spaceclamp region of the scan are currently causing an exception to be raised that is not handled by the software, thus it causes a fatal error. The fix is to check to see that the flag being checked is not undefined, previous check did not check for undefined.
2) The conversion from CERES Julian to ToolKit Julian before the ToolKit routine to do the conversion to UTC could be called was not properly done and caused the conversion to be off by 12 hrs.
3) The current code was not reporting the input gain coefficient files to metadata or the QC report. The call to record this file was added to the code.
4) The latitude range being reported for Terra and Aqua spacecraft was inadvertently set to the TRMM values, which have a much more restricted range.
5) In order to better track the elevation count bit-flips the Elevation Scan Rate flag is now being written to the instrument QC report.
6) In order to better track bit-flips in the radiance counts the Intercomparison flag is now being written to the instrument QC report.
7) New Solar Eclipse flag was never written to the QC report, it is now being added.
8) Add to allow comparison of PCFin files to insure that PCF files used in test and CM testing are the same. This was easier than trying to compare the PCF files themselves.
9) Check to insure that files are not being reported more than once. This began to occur when the update to add gain files for CER1.1Px was added. The file was showing up twice, so the check was added.

10) E-mail message to developers had the wrong directory for the CODINE output and error files. The directory was changed at some point to distinguish files run using APGS from manual runs.

Affected PGEs : CER1.1Px and CER1.3P3
Est. Time to Complete Changes: 1 week
Planned Delivery Date : August 20, 2004

Impact : Edition1 Terra for July 2004 can be processed after this delivery. Baseline1-QC for 8/2 and 8/14 FM1 and FM2 can be processed.

Date: 08/16/2004 Status: SUBMITTED
Originator: COOPER, DENISE L. (SAIC)

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ADDITIONAL CHANGES TO SCCR NO. 552:
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Description of Change (Science):
Set geolocation values to the CERES fill-value when a bit-flip is detected in the elevation counts.

Reason for Change (Science):
Bit-flips in the elevation counts cause erroneous values in the elevation angle, making the geolocation values wrong. This only affects a few (less than 10 footprints a day) footprints and does not change any science parameters.

Description of Change (non-Science):
11) Add a flag to the PCF file to turn on/off the WN Channel Update.
12) Add a flag to the PCF file to turn on/off the Double Drift Correction.

Reason for Change (non-Science):
11) Updates to the CERES instrument software may reverse the effects of the SW channel on the WN channel. If this is the case then we would no longer need to use the WN channel update in the SS1 software after the patch is implemented. So we need a way to switch between using the update and not using the update other than by changing input data files.
11) Adding this option in the PCF will enable turning off the Double Drift correction without having to deliver updated gain files. This is mainly for use in testing at the SCF, but could be used at ASDC if necessary.

Affected PGEs : CER1.1Px (x = 1 thru 6), CER1.3P3
Est. Time to Complete Changes: 3 days
Planned Delivery Date : August 20, 2004

Impact : No processing impacts, however the Ops Manual will now be updated to add the new PCF flags.
Date & Time: 2004-08-18 15:30:56
Originator: COOPER, DENISE L. (SAIC)

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Subsystem: GGEO   SCCR Date & TIME: 2004-08-16 12:57:44   SCCR No.: 553

Description of Change (Science):
1. Add infrared channel satellite-specific base calibration coefficient information to the CSU
CIRA B1 data read software for GOES-9, GOES-10 and GOES-12.
2. Add readjustment calibration information for the 2003 and 2004 data for all satellites.

Reason for Change (Science):
1. The existence of satellite-specific values was discovered while upgrading the inherited code for
GOES-12 processing. The defaults values used for all previous production GOES-9 and GOES-10
processing are very close to the satellite-specific values for those satellites.
2. The calibration information needs to be updated for further processing.

Description of Change (non-Science):
1. Modify the CSU CIRA read software to work to correctly process the GOES-12 infrared chan-
nel data.
2. Add software to read input data for a standard McIdas format which is being created for the
new GOES-9 data and which will eventually be used for data from all the satellites.

Reason for Change (non-Science):
1. The channel order of the infrared bias and gain scaling factors on the GOES-12 data files was
changed to match the channel order of the data on the files.
2. This is needed to read the GOES-9 data starting April 2004.

Affected PGEs : GGEO PGEs CER11.1P1-8
Est. Time to Complete Changes: will try to be ready by end of the week
Planned Delivery Date : Friday August 20, 2004
Impact : needed for further processing of GGEO data
Originator: STASSI, JOE C. (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: TISAavg8.0   SCCR Date & TIME: 2004-08-18 09:08:14   SCCR No.: 554

Description of Change (Science):
1. Addition of averaging and writing UV-A and UV-B flux data to the SYN, AVG/ZAVG products.
2. Corrected the synoptic average of the SW TOA fluxes.

Reason for Change (Science):
1. The new data from SYNI are required to be averaged.
2. The averaged albedos were not calculated correctly.

Description of Change (non-Science):
None

Reason for Change (non-Science):
N/A

Affected PGEs : CER8.1P1
Est. Time to Complete Changes: 1 week
Planned Delivery Date : August 27, 2004
Impact : None
Originator: NGUYEN, CATHY (SAIC)

CERES Software Configuration Change Request Submittal

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Subsystem: Inversion   SCCR Date & TIME: 2004-08-18 15:17:56   SCCR No.: 555

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
A new version of the 5 record SSF sample read package will be created for Terra Edition2B and Aqua Edition1A
SSFs. This version includes changes in SSF SDS names:
1) "ADMGEO" was changed to "Snow/ice percent coverage clear-sky overhead-sun vis albedo"
2) "CERES WN ADM type for inversion process" was changed to "Cloud Classification"
SCCR 533 describes these SDS names changes in the SSF product.

Reason for Change (non-Science):
DPC pages were updated and a new five record sample SSF with the new SDS names was created

Affected PGEs : N/A
Est. Time to Complete Changes: 1 week
Planned Delivery Date : Tuesday August 24, 2004
Impact : n/a
Originator: NOLAN, SANDY K. (SAIC)

Table 6: August 25, 2004 - Subsystem Issues and Status (1 of 5)

SS No.	SS Lead	Status	Problems
1.0	Cooper	• Continued tracking receipt of Aqua and Terra data at the ASDC. (Cooper, Snyder) • Spreadsheet to track all changes in Instrument subsystem data updated for new delivery. (Cooper) • Delivery of code updates to fix the fatal error that is being encountered when a bit-flip in the elevation counts occurs in the spaceclamp portion of the scan in Terra instruments. Also, fix code to set geolocation values to the CERES Fill-value when a bit-flip in the elevation counts is encountered for Earth-viewing data. Flags were added to the input file generator to enable turning on/off the WN channel update and Double Drift Correction from the PCF instead of having to redeliver coefficient files. (Cooper) • Looking at FM2 data for July 2003. Tak's analysis shows unexpected differences in the newest Edition2 data. At this point, no problems with the CERES data have been found. Still investigating to see if an error in production occurred, or if the data that Tak is using is the incorrect version. Nothing obvious has been found to date. (Cooper, Walikainen) • Modifications were made to the 3-Channel Inter-comparison using Deep Convective Clouds (DCC) to trend the monthly average of the following values: the shortwave sensor, the daytime longwave derived from the Window and Total sensors, and the daytime longwave derived by subtracting the nighttime longwave from the daytime Total sensor. These values were adjusted to a 30 degree solar zenith angle for each DCC group prior to averaging. Trending results were compared between the Edition1 and Edition2 data products for CERES instruments FM1 and FM2. (Spence)	

SS No.	SS Lead	Status	Problems
2.0	Walikainen	• Continuing to examine the production email generated by the QC checker software. (Walikainen) • Continuing to inspect ERBE-like Aqua and Terra output plots and QC reports on the Web. (Walikainen)	
3.0	Walikainen	Combined with above.	
4.1	Sun-Mack	• CloudVis images for TRMM Edition2 and TRMM Edition2 VIRSonly from January 2001 through April 2001 for the following regions: Taklimakan Desert, Central China, and Greece were generated and posted on the Web. Completed processing Cloudvis images for Terra Edition2-QC data for 39 subset regions for the month of December 2003. Also processed CloudVis images for Terra Edition2-QC Daytime results for June 2003 for subset regions Ny Alesund, Spitsbergen; Greenland and Lapter Sea. Terra Editon2-QC results were posted on the Web. (R. Brown) • Worked on updating and modifying DX scripts including updating non polar RGB combinations for AquaValR1 scripts, adding capability of updating lat/lon values in DX net for the showbox utility based on subset region. (R. Brown) • Processed Annual Zonal, Zonal Cloud Amount, and weighted zonal QC Statistical results for TRMM Edition2 and TRMM Edition2-VIRSonly data from 1998-2001, and Terra Edition2-QC data from 2000-2003. Posted results on the Web. (Chen, R. Brown) • Worked on the extended abstract for AMS 2004. (Sun-Mack) • Worked on matching of Aqua-MODIS flight pass of ER-2 and citation respectively. This included graphing Aqua-MODIS data and compared with GOES data. (Chen, Sun-Mack)	

SS No.	SS Lead	Status	Problems
4.1	Sun-Mack Cont'd.	• Had a meeting with microwave group (Bin Lin's group) to understand their needs. Ran a day of Aqua-MODIS successfully with their specs. Modified the scripts so that in the future ASDC can turn on and off CloudVis without Clouds delta delivery. (Sun-Mack)	
4.2	Sun-Mack	Combined with above.	
4.3	Sun-Mack	Combined with above.	
4.4	Miller	• The CERES Broadband vs. MODIS Narrowband regressions were calculated using zero intercept for the Terra Edition2A and Aqua ValR1 data. Various approaches to trending of the CERES SW vs. MODIS 0.64 channel data were performed. Information was provided Cory Priestly, RAB, for comment on differences between FM1 and FM2 when both were in crosstrack. (Miller) • A type definition for CERES-MISR comparison was created for Dr. Norm Loeb, Hampton University. (Miller) • The Aqua ValR2 data was monitored and validated. (Miller)	
4.5	Nolan	• Continued testing PGE CER4.5-6.6P2. (Zentz) • Created new 5 record sample SSF package for Terra Edition2B and Aqua Edition1A and delivered package to CERES CM on August 24, 2004. (Nolan) • Updated SSF DPC pages to modify two SDS names. Delivered updated DPC to CERES Documentation August 18, 2004. (Nolan) • Completed testing PGE CER4.5-6.2P2 to correct problem that occurred for leap year dates. (Nolan) • Examined Terra ValR5 SSF files and found no problems. (Nolan)	
4.6	Nolan	Combined with above.	

SS No.	SS Lead	Status	Problems
5.0	Coleman	• Responded to problems that arose during SSI&T for the Instantaneous SARB Subsystem. (Caldwell) • Prepared a plot of GFDL climatological aerosol optical depths for Dave Kratz. (Zentz)	
7.2	Coleman	• Added counters to QC report for newest reasons to not process a region through the model. Added range checking for newest parameters written to the SYNI. (Zentz, Caldwell) • Delivered Synoptic SARB Subsystem, software and updated documentation to CM. (Caldwell, Zentz, Coleman)	
12.0	Coleman	• No new updates.	
7.1	Nguyen	• No new updates.	
8.0	Nguyen	• Delivered code and documentation to CM. (Nguyen)	
10.0	Nguyen	• Running several SRBAVGs with different test cases for the scientists to analyze. (Nguyen) • Preparing to deliver the code to CM. (Nguyen)	
6.0	Raju	• Worked on FSW Description/Abstract document. Making final corrections to the document. (Raju) • Provided SW flux parameter information that is on FSW HDF product to Dave Young. This information is to clarify an inquiry by Moguo Sun (SBU). (Raju)	
9.0	Raju	• During ASDC testing the comparison between previous and newly generated SFC HDF files showed lots of mismatched SDSs. The cause for the mismatched data was due to an old version of PGE CER9.3P1 PCF ascii input script mistakenly included in the delivered tar file and this script does not set overlap file names correctly on PCF. Sent current version of PCF ascii generator script to CERES CM. (Raju) • Updated Operator's manual and sent to CERES documentation. (Raju)	

SS No.	SS Lead	Status	Problems
9.0	Raju Cont'd.	• Code was temporarily changed in ssf_file module to read a chunk of footprints and sort them into hour boxes rather than reading the whole ssf file into an array one time and then sort a chunk of footprints into hour boxes. This test is to see if reading the smaller chunks of data into buffer can fix some of the slow processing problems, secondly to see if we can compile code with SGI compiler and run all PGEs without having 4211 error. PGE CER9.2P1 code was compiled using SGI compiler and 6 days of December 2002 Aqua data was processed at SCF successfully. (Raju)	
11.0	Stassi	• Dave Doelling sent several equations (L.Nguyen, MODIS-fit, and DCCT-fit) for VIS channel conversion coefficients for GOES-8, GOES-10, and METEO-7. Created plots of the gain for these satellites from the year 2000 through 2005, so that Dave could compare the new numbers and the trends to the gains previously used in production processing. Final conversion equations for the 2003-4 data are not ready yet. (Stassi) • Started work on a new PGE CER11.2P3 which will "weed" bad data from a GGEO file without having to reprocess an entire month of data. There will be a meeting following the DMT to discuss this PGE. (Stassi) • Doug Spangenberg sent sample data files in the new proposed McIdas flat file format. This is the format for which Dave Young is proposing that we get all GEO data. Read routines for this format will be integrated into the GGEO source code prior to the next delivery. (Spangenberg, Stassi) • Due to processing priorities and time restraints prior to the upcoming CERES STM, it has been decided that no new GGEO data months will be processed prior to the STM. Therefore the GGEO delivery has been postponed until later in the Fall. (Stassi)	
CERESlib Stassi/Ayers		• No updates.	